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IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R.

1.121:

1.-4. (canceled).

5. (original) A method for resetting a state of charge (SOC) calculation for a designated energy storage bank of an energy storage system of a vehicle, the method comprising:

during operation of the vehicle, completely discharging and completely charging the designated energy storage bank;

maintaining the designated energy storage bank at a predetermined high terminal voltage for a specified period of time; and

following said specified period of time, defining a calculated, reset SOC for the designated energy storage bank to be a known SOC capacity.

6. (original) The method of claim 5, wherein said completely discharging the designated energy storage bank further comprises discharging energy from the designated energy storage bank to at least one of: one or more available energy storage banks in the energy storage system, a vehicle motoring operation, and a resistive grid.

7. (original) The method of claim 6, wherein:
said one or more available energy storage banks are a preferred discharging sink for the designated energy storage bank over said vehicle motoring operation and said resistive grid; and

said vehicle motoring operation is a preferred discharging sink for the designated energy storage bank over said resistive grid.